## INTERNATIONAL SEARCH REPORT

International application No. PCT/JP03/09506

A. CLAS	SIFICATION OF SUBJECT MATTER .Cl <sup>7</sup> G11B7/09		
According	to International Patent Classification (IPC) or to both n	ational classification and IPC	
	OS SEARCHED		<del></del>
Minimum d	documentation searched (classification system followed $1.01^{7}$ G11B7/09, 7/095, 7/085	by classification symbols)	
Documenta	tion searched other than minimum documentation to th	e extent that such documents are included	in the fields searched
OTES	uyo Shinan Koho 1922-1996 i Jitsuyo Shinan Koho 1971-2003	Toroku Jitsuyo Shinan Koh	0 1994-2003
Electronic d	data base consulted during the international search (name	ne of data base and, where practicable, sear	rch terms used)
C. DOCU	MENTS CONSIDERED TO BE RELEVANT	·	
Category*	Citation of document, with indication, where ap		Relevant to claim No.
A		ectric Industrial Co.,	1-3
	Ltd.), 01 October, 1990 (01.10.90),		
	Full text; Figs. 1 to 9		• • •
		0354754 A3 6 68913619 C	
A	JP 3-178043 A (Matsushita El		1 0
	Co., Ltd.),	ectic mastrial	1-3
	02 August, 1991 (02.08.91), Full text; Figs. 1 to 8		
	(Family: none)		
A	JP 11-53744 A (Samsung Elect 26 February, 1999 (26.02.99), Full text; Figs. 1 to 4	ronics Co., Ltd.),	. 1-3
	(Family: none)	1	
	i		
× Further	r documents are listed in the continuation of Box C.	See patent family annex.	
* Special	categories of cited documents:	"T" later document published after the inte	emational filing date or
"A" document defining the general state of the art which is not		priority date and not in conflict with th	application but cited to
"E" earlier document but published on or after the international filing "X" document of particular relevance; the claimed i			claimed invention cannot be
"L" docume	ent which may throw doubts on priority claim(s) or which is establish the publication date of another citation or other	considered novel or cannot be considered step when the document is taken alone "Y" document of particular relevance: the	•
special reason (as specified) considered to involve an inventive step when the			P When the document is
means	•	combined with one or more other such combination being obvious to a persor	skilled in the art
than the	ent published prior to the international filing date but later e priority date claimed	"&" document member of the same patent	
Date of the a	ectual completion of the international search eptember, 2003 (03.09.03)	Date of mailing of the international search 16 September, 2003	th report (16.09.03)
Name and mailing address of the ISA/		Authorized officer	<del></del>
Japanese Patent Office			
Facsimile No.		Telephone No.	

## INTERNATIONAL SEARCH REPORT

International application No. PCT/JP03/09506

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	tion). DOCUMENTS CONSIDERED TO BE RELEVANT		·· ··
Category*	Citation of document, with indication, where appropriate, of the relev		Relevant to claim No
P, A	JP 2003-173546 A (Alpine Electronics, In 20 June, 2003 (20.06.03), Full text; Figs. 1 to 2 (Family: none)	c.),	1-3
	•		
[			1

Form PCT/ISA/210 (continuation of second sheet) (July 1998)